

When Am I Ever Going To Use Math, Science, English and Social Studies?

As you select courses to take in school, have you ever wondered why certain courses are required? Why can't you take whatever you want? After all, it's your life. You should be free to make decisions about what you will do with the rest of your life. Let's examine that thought. Maybe there's a reason for those requirements.

The chart below lists the sixteen career clusters, a job title for each cluster and typical tasks for each job. These job titles are included in the list of the highest anticipated total 2018 employment jobs from the *Idaho Career Planning Guide*. Think about the academic skills (English, science, mathematics and social studies) needed to qualify for that job. Record that subject(s) in the Subject(s) column.

Career Cluster Needed	Job Title	Typical Job Tasks	Subject(s)
Agriculture, Food and Natural Resources	Farmer/Rancher	Buy and store livestock feed Evaluate crop/livestock markets Maintain and repair equipment	
Architecture and Construction	Plumber	Review blueprints and building codes Prepare work cost estimates Measure, cut and bend pipe to a required angle	
Arts, A/V Technology and Communications	Photographer	Communicate with clients Estimate or measure light level Have an artistic vision	
Business Management and Administration	Accountant	Look for ways to increase profits Explain the results of an audit to client Explore alternative financing methods	
Education and Training	Athletic Trainer	Communicate with patients to recommend special diets Give advice on the correct use of equipment Treat injuries using techniques, equipment and medication	

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Career Cluster Needed	Job Title	Typical Job Tasks	Subject(s)
Finance	Claims Adjuster	Report detailed monetary damages Convey accurate information Investigate and assess property damage	
Government and Public Administration	Criminal Investigator	Analyze evidence Exchange information with other officers and agencies Obtain and use search warrants properly	
Health Science	Home Health Aide	Administer oral medications Maintain patient records Check vital signs	
Hospitality and Tourism	Home Health Aide	Use spreadsheet programs to coordinate personnel assignments Monitor payroll Write employee improvement plans	
Human Services	Child Care Worker	Observe and monitor play Organize recreational activities Communicate information to parents and co-workers	
Information Technology	Computer Specialist	Give support and advice to customers Prepare training materials and procedures Verify operations and detect errors	
Law, Public Safety, Corrections and Security	Firefighter	Enforce codes Contain hazardous materials Function as an efficient team member	
Manufacturing	Welder	Analyze engineering drawings Use electric, gas and other welding equipment Coordinate scheduling with other trades	

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Career Cluster Needed	Job Title	Typical Job Tasks	Subject(s)
Marketing	Real Estate Agent	Understand applicable laws Create marketing pieces Evaluate mortgage options	
Science, Technology, Engineering and Mathematics	Electronic Engineering Technician	Repair and maintain equipment Provide customer support and education Maintain logs to document equipment tests	
Transportation, Distribution and Logistics	Truck Driver	Judge distances and angles Complete inspection of equipment and submit reports Apply knowledge of commercial driving regulations	